

Operating Manual

Gallet F1 XF²

Helmet for Firefighters

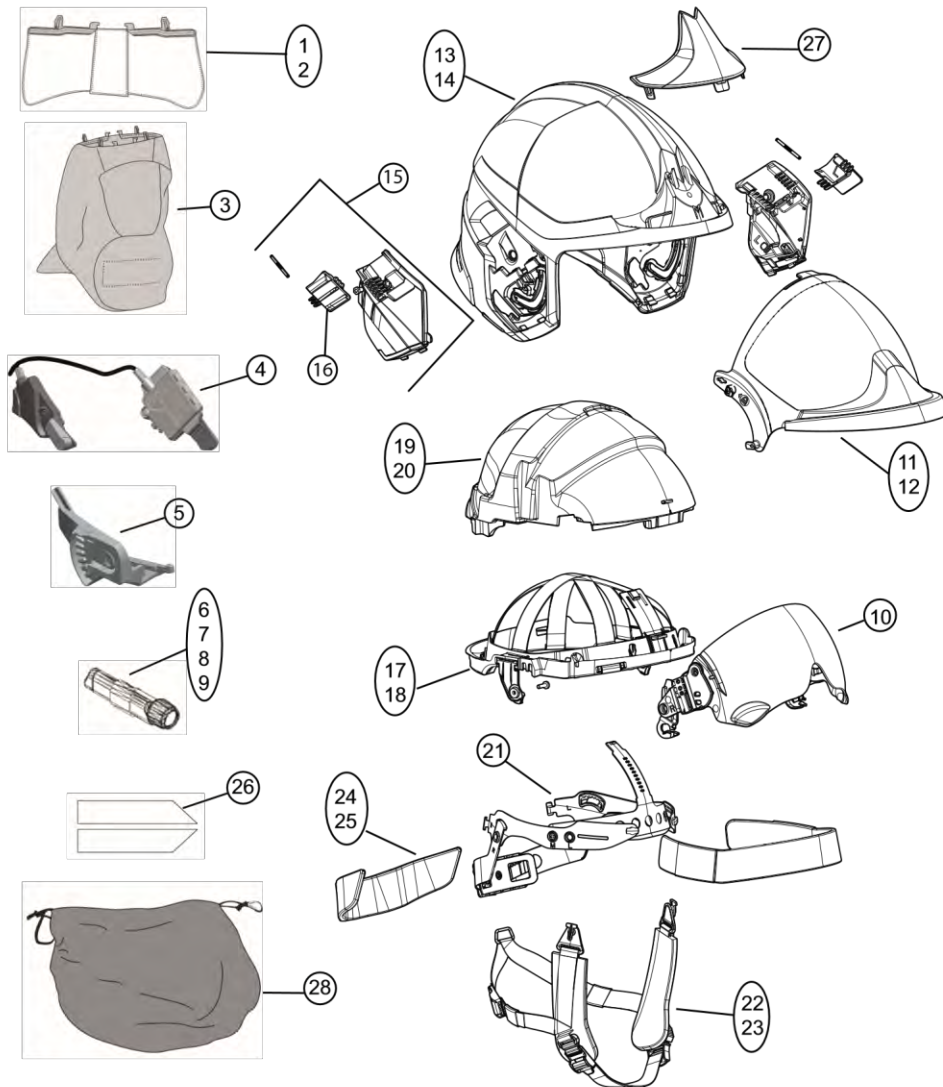




Order No. CH180453 - PQ730015

MSA GALLET
Zone Industrielle Sud
01400 Châtillon sur Chalaronne
France

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No	Part	Part. No
1	Aluminized neck curtain F1 XF	GA1116A
2	Integral neck curtain F1 XF	GA1116B
3	Nomex neck curtain F1 XF	GA1116C
4	Lighting module F1 XF	GA1484
5	Torch lamp support F1 XF	GA1485D
6	Lamp XP Xenon	GA1457
7	Lamp XP LED	GA1464
8	Lamp XS zone 0	GA1466
9	Lamp AS-R	GA1481
10	Ocular visor kit F1 XF, EN14458	GA1087A
11	Face shield F1 XF, EN14458, clear	GA1086A
12	Face shield F1 XF, EN14458, metalized	GA1086B
13	Shell F1 XF, Large, Painted	GA1090-xxL (S)
14	Shell F1 XF, Medium, Painted	GA1090-xxM (S)
15	Kitfix F1 XF	GA1092A
16	Kitfix F1 XF mobile	GA1092B
17	Suspension F1 XF, EN443, Large	GA1094-L (S)
18	Suspension F1 XF, EN443, Medium	GA1094-M (S)
19	Impact liner F1 XF, EN443, L	GA1095-L (S)
20	Impact liner F1 XF, EN443, M	GA1095-M (S)
21	Ratchet cradle F1 XF	GA1098A
22	Chinstrap F1 XF, textile	GA1128A
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24	Textile paddings, F1 XF	GA1129A
25	Leather paddings, F1 XF	GA1129B
26	Retroreflective stickers F1 XF	GA1136-xx
27	Front plate F1 XF	GA1150
28	Protective bag for helmet	GA1382

Safety Regulations

1.1 Correct Use

The Gallet F1 XF helmet - hereafter called helmet - is a safety helmet for the head intended for firefighters operations, such as fire fighting in buildings and other structures, rescue interventions and other typical tasks of fire brigades.

The helmet is designed for use with SCBA full face masks.

**Warning!**

The safety intended to be provided by the helmet can only be ensured when it is properly assembled and correctly fitted, removable parts shall not be worn separately.

**Danger!**

This helmet is not suitable as a motorcycle helmet.

It is imperative that this operating manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for safe use.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

1.2 Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

**Danger!**

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

2 Description

The helmet provides protection of head and face against shocks, sharp objects, splatters of solid, liquid, corrosive, chemical products (sulfuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane...), molten metals, radiating heat, flames, electric current.

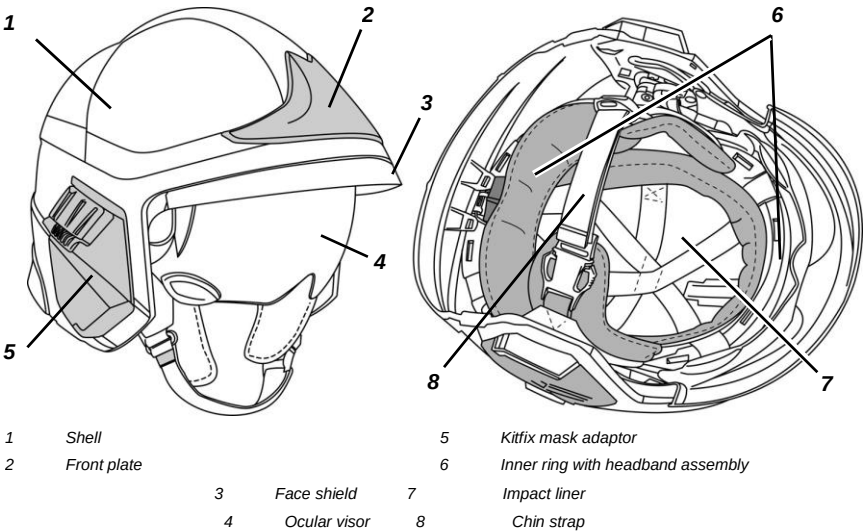
In situations where the conditions exceed those described in the specifications mentioned above, the protection of the user is not guaranteed.

Face Shield

The clear or gold coated face shield protects against various risks likely to arise during firefighting interventions, ambulance and emergency services, except respiratory and smoke and gas / vapour emission risks. The face shield resists the splatter of chemical products identical to those of the helmet mentioned above.

2.1 Overview

The helmet consists of the following components:



2.2 Technical Data

Helmet sizes	- Medium (M) for head sizes from 52 cm to 62 cm (20.5 inches to 24.4 inches) - Large (L) for head sizes from 57 cm to 65 cm (22.4 inches to 25.6 inches)
Weight (Helmet with face shield, no options)	- M: 1450 ± 30 g - L: 1580 ± 30 g Weight changes when options are fitted on the helmet. Check manuals for options for their exact weights.
Options	- Neck curtain (3 types) - Integrated lighting module - Lamp bracket to fit a helmet mounted flashlight - Ocular visor - Communication headset - Hearing protection with or without communication Detailed information regarding the lighting module and the communication headset can be found in the separate user manual for these devices.
Warranty	
- Helmet - Options	2 years, parts and labour from the date of purchase 2 years, parts and labour from the date of purchase

Description

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Legal warranty

For defects and hidden defects according to the conditions stipulated in articles 1641 and pursuant to the Civil Code (in France).
Different national regulations may apply.

2.3 Certifications/Approvals/Technical Specifications

The helmet meets the 89/686/EEC directive and is certified according to EN 443:2008. Depending on the individual helmet configuration, optional EN 443:2008 requirements may be marked on the helmet, as explained below:

Standards and Directives for Helmet

Certification agency	Helmet	INSPEC Ltd (0194), 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom
Standards and directives:	89/686/EEC	Personal protection equipment
	EN 443:2008	"Helmets for firefighting in buildings and other structures".
Type B	Indicates the protection zone assured by the helmet (area 1a -1b).	
Type B3b	Indicates the extended protection zone assured by the helmet (area 1a-1b and 3b)	
E2	Indicates the electrical insulation of the damp helmet.	
E3	Indicates a non-conductive surface of the shell.	
***	Indicates protection at low temperature down to -30°C	
C	Indicates a resistance to liquid chemical products. (sulfuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane)	
Marking	Meets 96/98/EC Marine Equipment Directive (MED) (Wheelmark):	

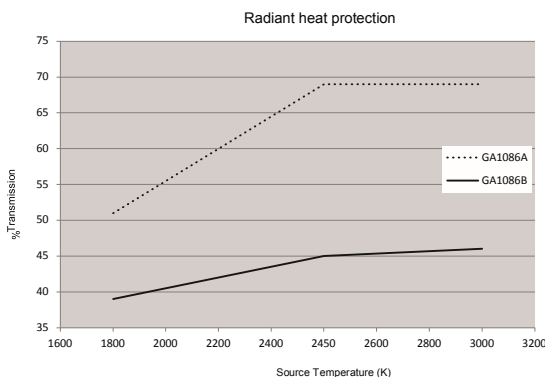
Standards and Directives for Visors

Certification agency	Face shield:	INSPEC Ltd (0194), 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom
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	Ocular visor	DEKRA EXAM (0158), Dinnendahlstr. 9, D-44809 Bochum
Standards and directives:	89/686/EEC	Personal protection equipment
	EN 14458:2004	Personal eye equipment
(+)	Conforms to the additional requirements of firefighters	
	Visor type: Eye guard	
	Visor type : Face guard	
-30 °C; 120 °C	Extremes of temperature to which the visor has been tested (-30 °C & +120 °C)	
Ω	Complies with the electrical properties	
A	Resistance to high energy impact 190 ms-1	
T	Resistance to medium energy impact at extremes of temperatures	
AT	Resistance to high energy impact (190ms-1) at extremes of temperature	
K	Resistance to abrasion according EN 168: 2001, clause 15	
N	Resistance to fogging	
2C-2.5 and 2C-1.2 UV Filtering according to EN170:2002		

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Adjusting the Helmet



The protection against radiating heat ensured by the face shields varies with the temperature of the heat source, see figure above. It is recommended to only use the face shield when the face shield can reduce the heat exposure to the wearer's eyes to less than 100W/m².



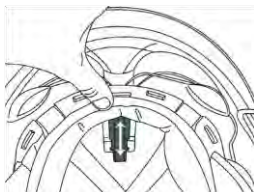
Warning!

When fitted with another item of personal protective equipment or with an accessory, (other than as supplied by the helmet manufacturer for use with this helmet) a helmet marked as complying with EN 443 might no longer satisfy all clauses of the standard. Refer to information supplied by the helmet manufacturer.

3 Adjusting the Helmet

3.1 Before

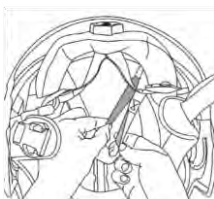
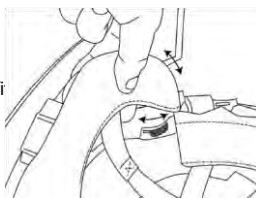
Donning



- (1) Choose helmet size M or L (see Technical Data) according to your head size.
- (2) Adjust front headband by sliding it up or down.
- (3) Position front headband inside the helmet to avoid contact between headband and mask.

Adjust rear headband by rotating to optimise fit

(4)



- (5) Adjust wearing height with the Velcro fasteners on the two rear suspension straps.

on back of the head.

3.2 Donning

The following adjustments have to be carried out when the helmet is donned.

Position the
before don-



(1)

ning the helmet.

chin strap as shown

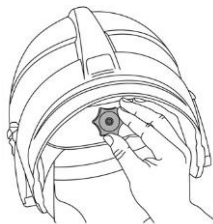
size:

(3)

- ▷ Turn knob clockwise to tighten the ratchet
- ▷ Turn knob anticlockwise to loosen the

Check that the helmet is correctly adjusted:

- ▷ The helmet should not fall off when the head is leaning forward and the chin strap is unfastened.



(2)

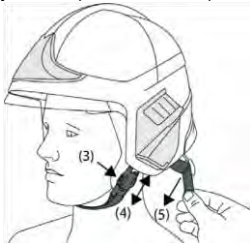
Adjust head

headband.

ratchet headband.

The chin strap is
equipped with 3

adjustment points to allow quick and simple adjustment while the helmet is on the head.



- (1) Maximally loosen the 3 adjustment points.
- (2) Place helmet on head. Make sure that it is well positioned.
- (3) Close the buckle of the chin strap.
- (4) Tighten the chin strap.
- (5) Tighten the two rear adjustment straps until a tight but still comfortable fit is achieved.



The wearing angle shown here is indicative.

It may vary slightly depending on user's head size and shape.



Warning!

The helmet only meets the retention requirements of EN 443:2008 when the chin strap provided by the helmet manufacturer is worn and adjusted according to the instructions.

3.3 Visors

**Warning!**

- Visors worn over non-designated corrective frames may transmit impacts which may damage the corrective eyewear thus creating a hazard to the user.
- Service life of visors is depending on the conditions of use.
- Any face shield that has been scratched, dropped or damaged must be replaced.
- The visor type "Face guard" will provide protection to the eyes and substantial areas of the face.
- Performances of the visor are obtained only in use position (low position). Visors should be in standby position (stored under the helmet shell) during the use of a breathing apparatus (SCBA).
- Equipment not marked with "T" should only be used at non-extreme ambient temperatures.
- Ensure that you are using an EN443 helmet with a visor marked "+" for structural firefighting.
- Materials that come in contact with the wearer's skin could cause allergic reactions in susceptible individuals.

Face Shield**Ocular Visor (optional)**

(1) Position by pulling it completely up or down.

(1)
(2)

Position by pulling it up or down.

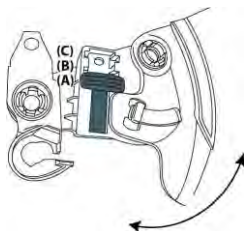
Tilt the ocular visor towards the face for an optimal fit.

The ocular visor can be adjusted to optimize the distance between visor and face.

(1) Don helmet and pull down ocular visor.

4 Attaching

4.1 Neck 2 types



- 4 at the rear for the rear
- 4 more at the front for the H)

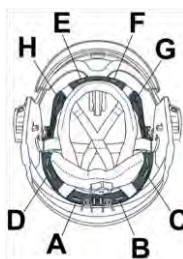
- (2) Unclip and clip the yellow stopper in positions (A), (B) or (C) to optimize fit of the ocular visor on the face.

the Accessories

Curtains

of neck curtain can be installed:

- Neck curtain for rear protection
- Integral neck curtain

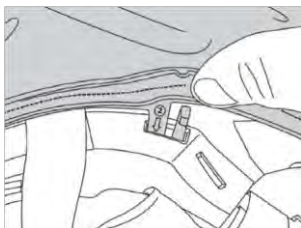
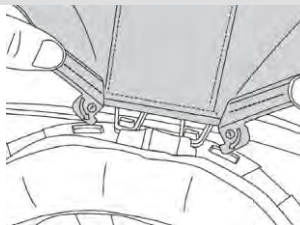


The helmet has 8 slots for installing the neck curtain: neck curtain (A, B, C, D). integral neck curtain (E, F, G,

Attaching the Accessories

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- (1) Place the neck curtain upside down above the helmet.
- (2) Insert the 2 clips marked ❶ in the central slots.



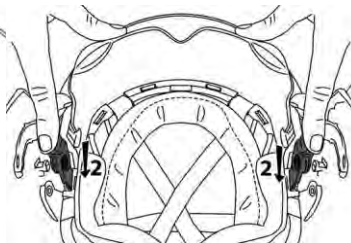
4.2 Ocular

- (1) Place the ocular visor upside helmet.
- (2) Insert the 2 clips into the dedicated slots.

- (3) Push the 2 pressure clips ❷ till locking.

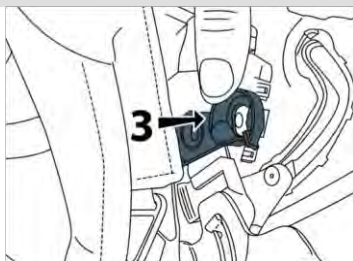
For the integral neck curtain, repeat the operation for the 4 front attachment points.

Visor

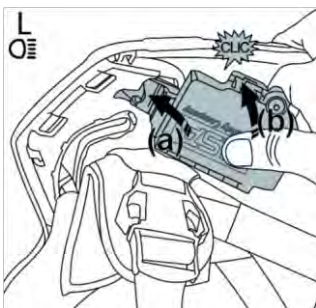


down above the simultaneously

- (3) Lock the ocular visor module by fixing it on the shell plot (right and left).

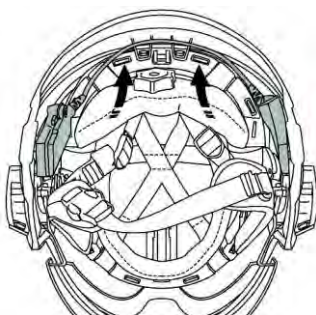


4.3 Lighting Module

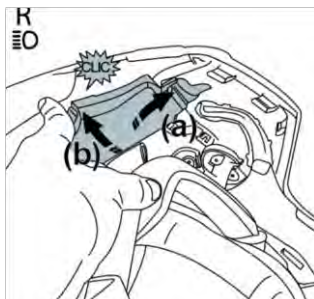


- (1) Place the helmet upside down with the face shield towards you.

- (2) Insert the left box (L) of the F1 XF Lightning module into the space provided on the left side of the helmet and clip into place.



- (3)
(R).



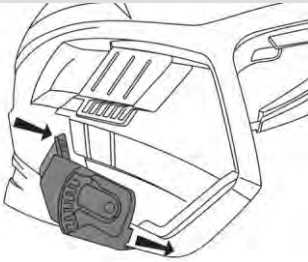
- Follow the same procedure for the right box

Attaching the Accessories

- (4) Ensure that the cable is placed in the indicated area.

See the Lighting module user instruction delivered with the product for details on operation.

4.4 Lamp Bracket and Lamp



bracket along the shell shape.

(1) Slide the

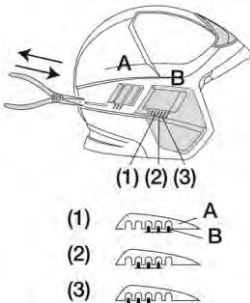
lamp

- (2) Insert the lamp into the lamp bracket from the rear open side (A).
- (3) Rotate, then press forward to secure the attachment (B).
- (4) Tilt the lamp up and down into the required position.
- (5) To remove the lamp, slightly press it towards the helmet while sliding it to the rear open side (A) of the lamp bracket.



4.5 Mask Adapter (Kitfix)

Attach a mask using the "Kitfix" connector kits A.



To adjust mask tightness on helmet:

- (1) Use a pair of pliers to remove the pin.
- (2) Adjust the Kitfix to position (1) (2) or (3) (according to desired mask tightness).
- (3) Use the pin to lock the Kitfix in place (push it in completely).
- (4) Test mask seal after attaching the mask if necessary.

5 Maintenance and Cleaning

The length of the useable life of this helmet will be affected by the type(s) of material used in its construction and the environments in which the helmet is used and stored. Recommendations on this topic should be sought from the manufacturer.



Warning!

Do not apply paint, stickers, cleaning products with a hydrocarbon base or solvents to the helmet or visors to prevent damaging the materials of your helmet.



Do not drop the helmet.
Prevent the helmet from impacts which could damage the shields (cracks/scratches).



The parts in contact with skin have to be inspected regularly for cracks or wear that could cause discomfort. Changing those parts regularly will maintain user comfort level.

To maximize helmet lifetime:

- Store the helmet in a proper storage bag and/or in a closed cabinet to avoid extended exposure to cold, humidity, exhaust fumes, etc.
- Clean the helmet (shell and internal components) after use before storing.

Checks After Each Use

After each use, check every part of the helmet and especially all the fixing points:

- Correct anchor points used
- No evident wear
- No fractures or cracks

Check that the helmet fit is always correct.

Maintenance by a Trained Maintenance Specialist

Only trained people should perform the regular maintenance.



Attention!

Replace any damaged parts only with original MSA parts, as only these original parts are authorized and ensure the performance of the helmet.

Helmet absorbs the energy of a blow by partial destruction of, or damage to, the helmet. Even though such damage may not be readily apparent, any helmet subjected to a severe impact should be replaced.

Periodically, perform a complete check of the helmet with detailed inspection of each critical component. MSA provides upon request a Service and Maintenance manual which details conformity criteria for all safety components of the helmet and parts replacement procedures.

MSA recommends that this complete control is performed at least every two (2) years, more regularly in case of intensive use (every year for instance), or each time the helmet has been exposed to very severe conditions (mechanical impact, very high temperature, direct flame contact, contact with pouring metal or chemicals).



Attention!

In case of visible damage identified during the daily check (before or after use), such as impacts, significant scratches, coating removal on the shell or visors, melted parts, broken parts, torn straps or paddings, missing components, non-operational moving parts (such as visors or ratchet), etc., the helmet should be taken to the trained maintenance technician or an MSA approved maintenance center for complete control processing.



Attention!

Components that are particularly suspension, shell and impact liner,
Treat such parts with special attention and care



critical to the safety of the product, such as
are marked with .
during inspection and assembly.

5.1 Cleaning and Disinfection

Plastic Components

- Use soapy water and a soft cloth. (Do not use detergent, solvent based products or abrasive materials).

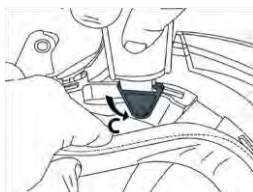
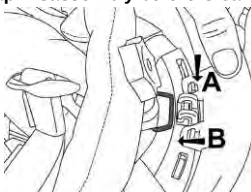
Face Shield and Ocular Visor

- Use soapy water and a soft cloth. (Do not use detergent, solvent based products or abrasive materials).

Chin Strap and Headband Liner

- (1) Remove the textile or leather components (fastened with Velcro).
- (2) Clean it as follows:
 - Textile chin strap + textile headband liner: 30°C with a mild detergent.
 - Leather chin strap + leather headband liner: Use soapy water and a lint-free soft cloth.

Chin Strap Disassembly before Cleaning

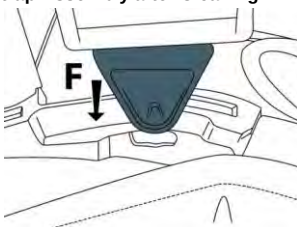


- (1) Unlock metallic trapezoid (chin strap 3rd point) (2) Rotate the clips on right and left side of the chin strap 90 degrees towards the rear of the helmet.

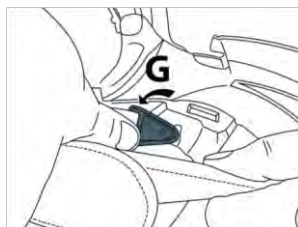
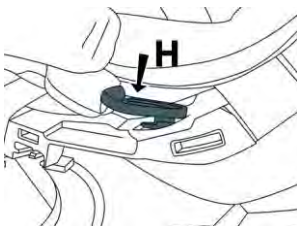


- (3) Push each clip forward and raise it on the back.

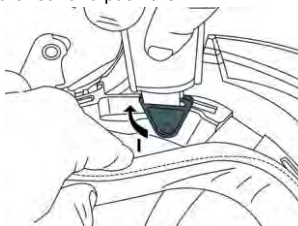
Chin Strap Assembly after Cleaning



- (1)



- Insert both clips into the slots vertically.
- (2) Rotate clips 90 degrees towards the rear and push them in.



Spare Parts, Accessories and Options

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- (3) Rotate the clips 90 degrees forward into the wearing position.



Attachment of the 3rd point (at the back)

- (4) Insert the metallic trapezoid and lock it in the hook by pulling it vertically.

Cleaning the Neck Curtains

Neck curtains made of Nomex, wool: -

Cleaning at 30°C with a gentle detergent

Aluminized neck curtain:

- Cleaning at 30°C with water, using a sponge.



5.2 Transport

Helmet with Visor(s)

Store the visor(s) inside the helmet (out of use position), store the helmet in a MSA Gallet protective bag (GA1382).

Visor as Spare Part

The visors have to be kept in their plastic bags until they are mounted on the helmet.

5.3 Discard

The helmet must be treated as ordinary industrial waste/non-hazardous waste according to local regulations. For further information contact MSA.

6 Spare Parts, Accessories and Options

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3	Nomex neck curtain F1 XF	GA1116C
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5	Torch lamp support F1 XF	GA1485D
6	Lamp XP Xenon	GA1457
7	Lamp XP LED	GA1464
8	Lamp XS zone 0	GA1466
9	Lamp AS-R	GA1481
10	Ocular visor kit F1 XF, EN14458	GA1087A
11	Face shield F1 XF, EN14458, clear	GA1086A

MSA**Spare Parts, Accessories and Options**

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13	Shell F1 XF, Large, Painted	GA1090-xxL	
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26	Retroreflective stickers F1 XF	GA1136-xx	
27	Front plate F1 XF	GA1150	
28	Protective bag for helmet	GA1382	



For illustrations of parts see fold-out page.

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